

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. **HSJ920030267US1**First Inventor **Prakash Kasiraj**

Title

CURRENT-PERPENDICULAR-TO-PLANE MAGNETORESISTIVE SENSOR WITH FREE LAYER
STABILIZED AGAINST VORTEX MAGNETIC DOMAINS GENERATED BY THE SENSE CURRENTExpress Mail Label No. **EL 995203155 US****APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **17**]
(preferred arrangement set forth below)
- Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **2**]
5. Oath or Declaration [Total Pages **2**]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35
or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: _____ / _____

Prior application information:

Examiner: _____

Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

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31,784

Signature



Date

2/10/04

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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PTO/SB/17 (10-01)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL for FY 2004

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 810.00

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Prakash Kasiraj
Examiner Name	
Group Art Unit	
Attorney Docket No.	HSJ920030267US1

METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 502587

Deposit Account Name: Hitachi Global Storage Technologies

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION (continued)

3. ADDITIONAL FEES					Fee Description	Fee Paid
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)			
1051	130	205	65		Surcharge - late filing fee or oath	
1052	50	227	25		Surcharge - late provisional filing fee or cover sheet	
1053	130	139	130		Non-English specification	
1812	2,520	147	2,520		For filing a request for <i>ex parte</i> reexamination	
1804	920*	112	920*		Requesting publication of SIR prior to Examiner action	
1805	1,840*	113	1,840*		Requesting publication of SIR after Examiner action	
1251	110	215	55		Extension for reply within first month	
1252	420	216	205		Extension for reply within second month	
1253	950	217	465		Extension for reply within third month	
1254	1,480	218	725		Extension for reply within fourth month	
1255	2,010	228	985		Extension for reply within fifth month	
1401	330	219	160		Notice of Appeal	
1402	330	220	160		Filing a brief in support of an appeal	
1403	290	221	140		Request for oral hearing	
1451	1,510	138	1,510		Petition to institute a public use proceeding	
1452	110	240	55		Petition to revive - unavoidable	
1453	1,330	241	650		Petition to revive - unintentional	
1501	1,330	242	650		Utility issue fee (or reissue)	
1502	480	243	235		Design issue fee	
1503	640	244	310		Plant issue fee	
1460	130	122	130		Petitions to the Commissioner	
1807	50	123	50		Processing fee under 37 CFR 1.17(q)	
1806	180	126	180		Submission of Information Disclosure Stmt	
8021	40	581	40		Recording each patent assignment per property (times number of properties)	40
1809	770	246	370		Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	249	370		For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	279	375		Request for Continued Examination (RCE)	
1802	900	169	900		Request for expedited examination of a design application	
Other fee (specify) _____						
*Reduced by Basic Filing Fee Paid						
SUBTOTAL (3) (\$ 40.00						

FEE CALCULATION

1. BASIC FILING FEE					Fee Description	Fee Paid
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)			
1001	770	2001	385		Utility filing fee	770.00
1002	340	2002	170		Design filing fee	
1003	530	2003	265		Plant filing fee	
1004	770	2004	385		Reissue filing fee	
1005	160	2005	80		Provisional filing fee	
SUBTOTAL (1) (\$ 770.00						

2. EXTRA CLAIM FEES

Total Claims: 17 -20** = 0 X 18.00 = 0.00

Independent Claims: 3 -3** = 0 X 86.00 = 0.00

Multiple Dependent: _____ = _____

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description		
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$ 0.00				

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Douglas R. Millett	Registration No. (Attorney/Agent)	31,784
Signature		Telephone	(408) 717-5491
		Date	2/10/04

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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APPLICATION DATA SHEET

DOCKET NO

TITLE

EXP MAIL LABEL NO

MAIL DATE (mm/dd/yy)

PAGES OF SPEC

DWG SHEETS

TOT CLMS

EXTRA (TOT - 20)

IND CLMS

EXTRA (IND - 3)

ATTY-AGENT

REG NO -- PHONE NO

NO OF PGS IN DECLARATION -- LAST DATE SIGNED (MM/DD/YY)

LAST DATE ASSIGNMENT SIGNED (MM/DD/YY)

EXPRESS MAIL CERTIFICATE

I hereby certify that the above paper/fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Commissioner for Patents and Trademarks, Alexandria, VA 22313-1450.

"Express Mail" no.: EL995203155

Date of Deposit: 02/10/04

Person mailing paper/fee: Mary Lou Domenici

Signature 